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NPIC/R-57/65
March 1965

PHOTOGRAPHIC INTERPRETATION REPORT

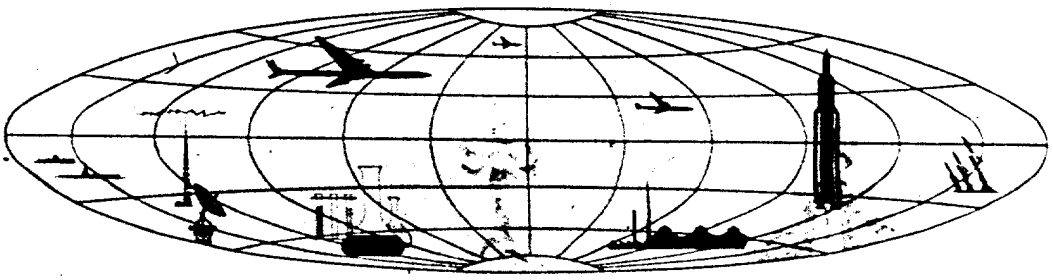
1751

GALOSH MISSILE, MOSCOW PARADE
7 NOVEMBER 1964

CIA

DIA

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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PREFACE

This report is in response to CIA requirement C-SI4-82,031 requesting mensuration on the GALOSH missile shown in the November parade in Moscow.

The mensural data contained in this report were obtained from photographic graphical solutions coupled with scaling and ratio techniques. Because of the geometrical problems involved in mensural analysis of oblique ground photography, some degree of error is inherent. The reader is cautioned that, while in many instances dimensions are carried to one hundredth part of a foot, the degree of accuracy is not that reliable. The following table presents a general guideline in determining what degree of confidence can be placed in the data.

The reader is further cautioned that the graphics presented with the accompanying mensural data are not intended to be used for detailed engineering analysis.

Attache photography acquired in Moscow on 7 November 1964 discloses 2 missiles reported by the Soviets to be antimissile missiles (Figure 1). Serial numbers 230618 and 241509 are discernible on the sides of the canisters housing the missiles. Each missile is being towed by a diesel powered, truck tractor (Figure 2), similar to the type seen in Cuba with the SS-5 surface-to-surface missile system. Photographs and detailed line drawings with mensural data are shown in the following pages (Figures 1-7).

The missile configuration is unknown because of the canister; however, the aft end of the booster is exposed at the end near the prime mover. Visible components include 4 exhaust nozzles, 4 booster fins, and 4 rails. The exhaust nozzles are recessed approximately 1.40 feet from the edge of the canister, measure 2.50 feet in diameter, and have a diagonal separation of 4.90 feet from center to center; the booster fins are 2.60 feet long.

A detachable dome-shaped guard, shrouded with an undetermined type of fabric, encloses the opposite end of the canister (Figures 2 and 3). The dome is 4.35 feet in depth and 9.80 feet in diameter. The canister measures 9.55 feet in diameter. It is intricate in design, having numerous openings and appendages with numbered compartment openings of various sizes noted along the sides and under the canister (Figure 5). Located 20.85 feet from the booster end are 8 unidentified tubular appendages, 4.70 feet long,

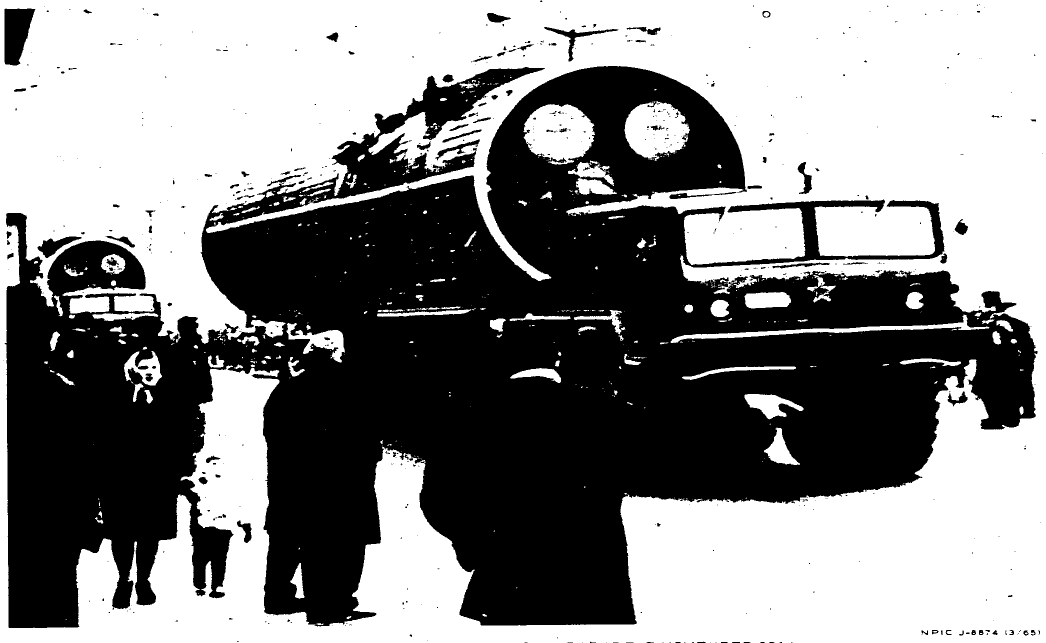

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FIGURE 1. TWO GALOSH MISSILES ON PARADE, 7 NOVEMBER 1964.

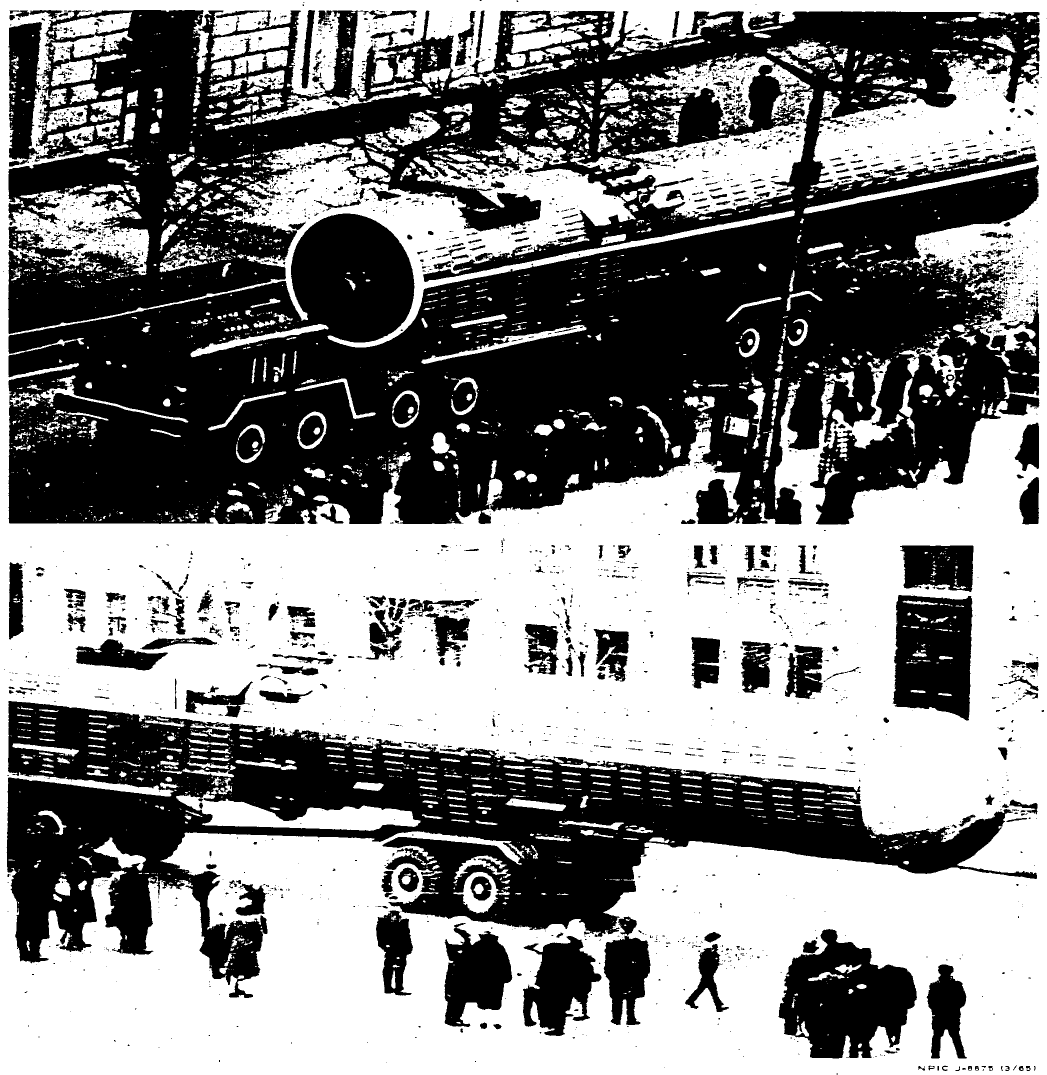
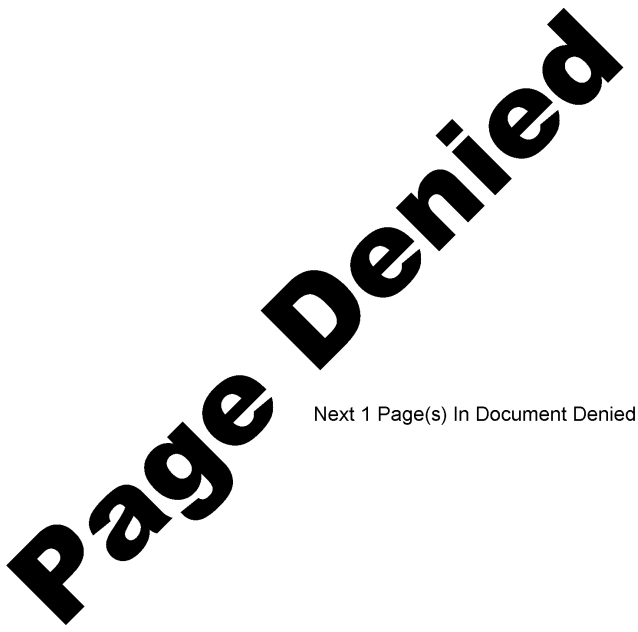


FIGURE 2. CANISTER AND TRANSPORTER.



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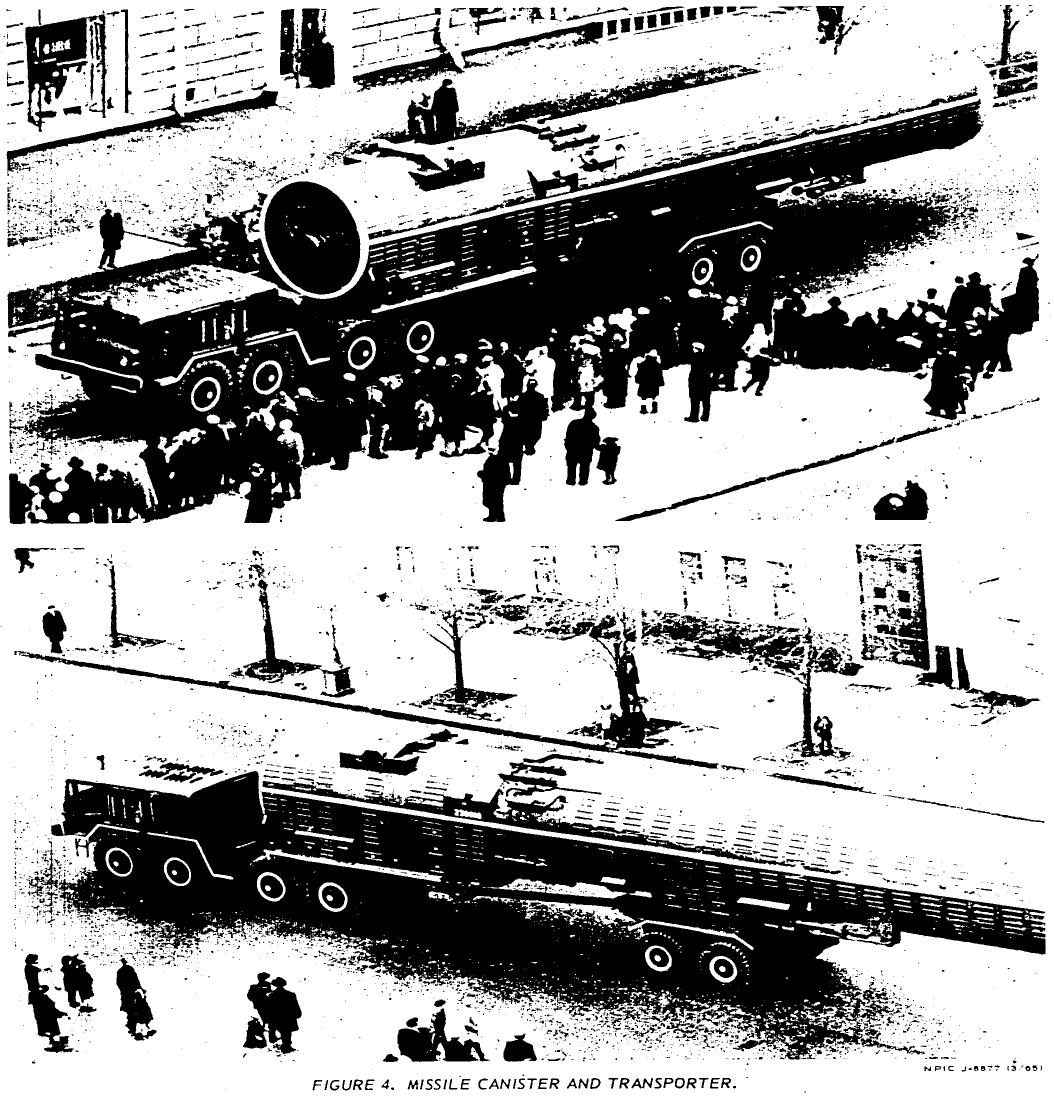

FIGURE 4. MISSILE CANISTER AND TRANSPORTER.

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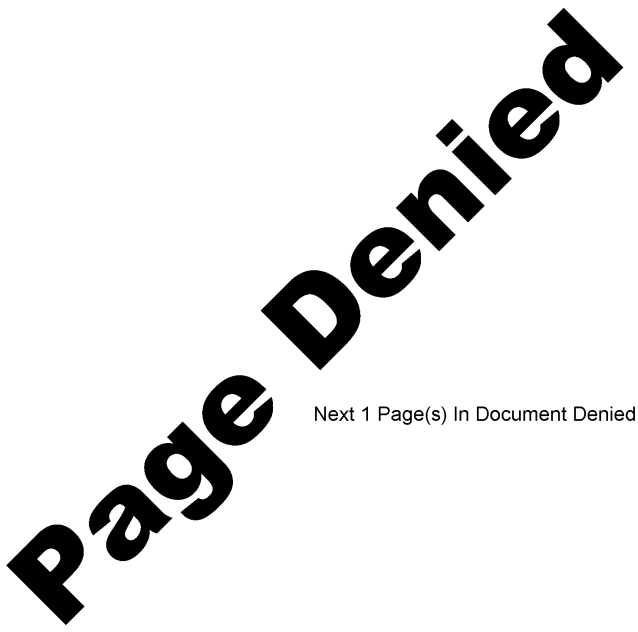
FIGURE 5. SIDE VIEWS OF GALOSH MISSILE BEING TOWED.



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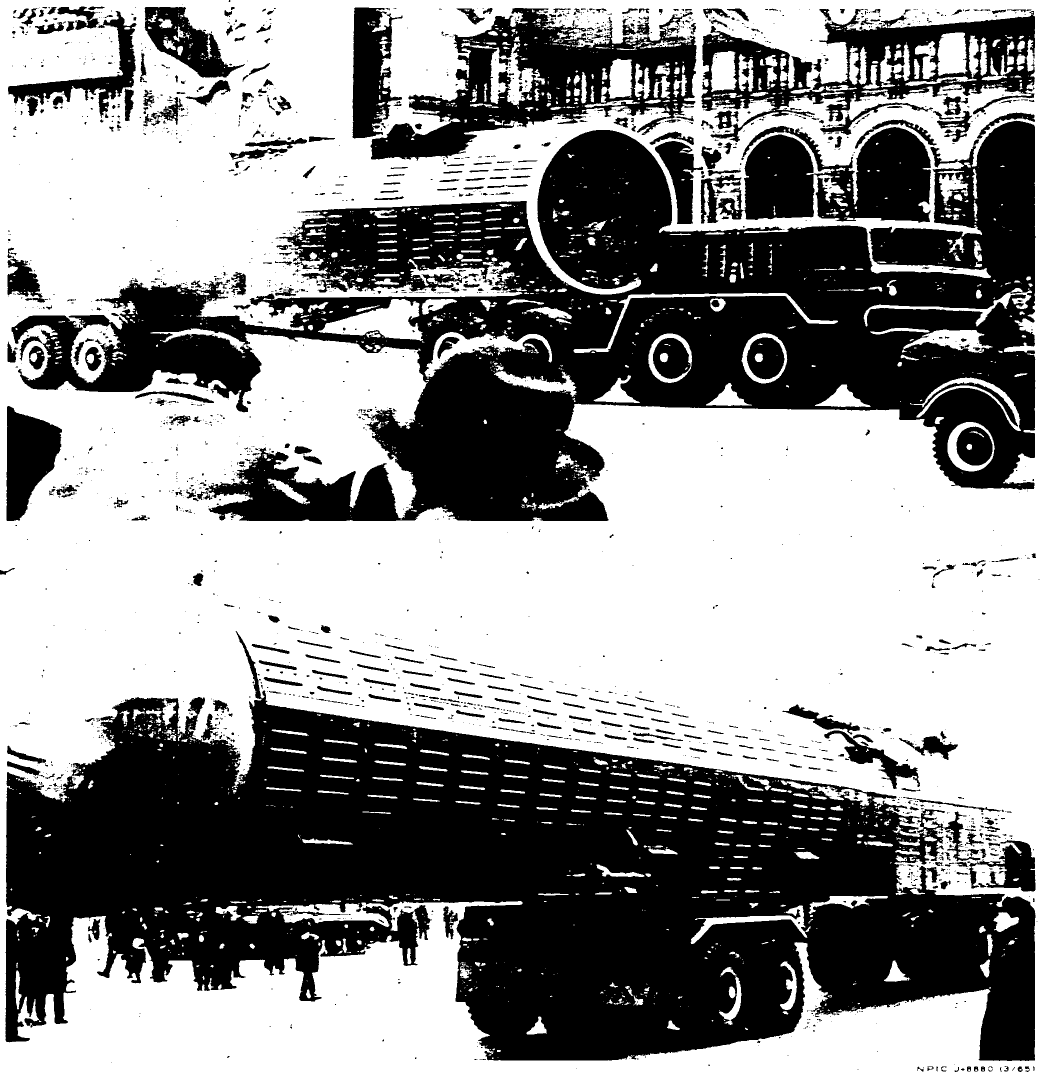

FIGURE 7. AFT AND FORWARD ENDS OF MISSILE CANISTER.

connected by pipe to the canister (Figure 6). The function of these is unknown, but it is most likely that they are part of a heating or hydraulic system. Below the 2 top unidentified appendages on each side of the canister there is a cylindrical tank that is .65 feet in diameter and 2.05 feet in length and connected by hose to the missile canister. The canister is equipped with parking standards, 2 of which have metal wheels and probable gear boxes.

Overall length of canister and truck tractor is 89.50 feet, maximum width of the two is 10.40 feet, and height is 16.00 feet. The truck tractor has 2 steerable tandem axles under the cab and 2 fixed tandem axles under the fifth wheel. It is connected to the fixed tandem axles under the canister by a reach, the diameter of which is too small to indicate its intended use to supply power to the rear wheels.

REFERENCES

PHOTOGRAPHY

Selected attache photography of 7 November 1964 (SECRET, 25X1

REQUIREMENT

C-SI4-82,031

NPIC PROJECT

11955/64 (partial answer)

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